



CHOICE BASED CREDIT SYSTEM (CBCS)
FOR
MASTER OF TECHNOLOGY (M.Tech.)
(2 Year Postgraduate Degree Programme)
IN
BIOMEDICAL ENGINEERING

[w. e. f. 2025-2026]

FACULTY OF ENGINEERING AND TECHNOLOGY
SRM UNIVERSITY DELHI-NCR, SONEPAT
39, Rajiv Gandhi Education City, Sonapat
Haryana-131029



SEMESTER-I

Code	Category	Course	L	T	P	C
Theory						
25MBEXXX	PC	Advanced Mathematics for Biomedical Engineers	4	0	0	4
25MBEXXX	PC	Human Anatomy and Physiology	4	0	0	4
25MBEXXX	PC	Biomedical Signal Processing	4	0	0	4
25MBEXXX	OE	Open Elective-I	4	0	0	4
25MBEXXX	DE	Departmental Elective-I	4	0	0	4
Practical						
25MBEXXX	PC	Biomedical Signal Processing Lab	0	0	4	2
Total			20	0	4	22
Total Contact Hours			24			



SEMESTER-II

Code	Category	Course	L	T	P	C
Theory						
25MBEXXX	PC	Biomedical Electronics and Circuits	4	0	0	4
25MBEXXX	PC	Research Methodology and Biostatistics	4	0	0	4
25MBEXXX	PC	Artificial Intelligence in Healthcare	4	0	0	4
25MBEXXX	DE	Department Elective-II	4	0	0	4
Practical						
25MBEXXX	PC	Artificial Intelligence in Healthcare Lab	0	0	4	2
Total			16	0	4	18
Total Contact Hours			20			



SEMESTER-III

Code	Category	Course	L	T	P	C
Theory						
25MBEXXX	PC	Digital Image Processing in Medicine	4	0	0	4
25MBEXXX	DE	Department Elective-III Track A/B/C	4	0	0	4
Practical						
25MBEXXX	PC	Dissertation Phase-I	0	0	10	10
25MBEXXX	PC	Seminar	0	0	4	4
Total			8	0	14	22
Total Contact Hours			22			



SEMESTER-IV

Code	Category	Course	L	T	P	C
Practical						
25MBEXXX	PC	Research Review Paper	0	0	2	2
25MBEXXX	PC	Dissertation Phase-II	0	0	16	16
Total			0	0	18	18
Total Contact Hours			18			

Total Credits: 84



LIST OF OPEN AND DEPARTMENTAL ELECTIVES

Code	Category	Course	L	T	P	C
Open Elective						
25MOE0103	OE	Advance Mathematics and Computations	4	0	0	4
25MOE0105	OE	Nano Technology	4	0	0	4
25MOE0107	OE	Engineering Economics and Management	4	0	0	4
25MOE0109	OE	Industrial Management	4	0	0	4
25MOE0011	OE	Reliability and quality Management	4	0	0	4
25MOE0015	OE	Entrepreneurship Development	4	0	0	4
Departmental Elective-I						
	DE	Medical Imaging Systems	4	0	0	4
	DE	Biomechanics and Rehabilitation Engineering	4	0	0	4
	DE	Biomedical Instrumentation	4	0	0	4
Departmental Elective-II						
	DE	Neural Engineering and Brain-Computer Interface	4	0	0	4
	DE	Cardiovascular Engineering	4	0	0	4
	DE	Computers in BME	4	0	0	4
Departmental Elective-III						
Track A: Medical Device Design & Development						
	DE	Advanced Medical Device Design	4	0	0	4
	DE	Regulatory Affairs and Quality Assurance	4	0	0	4
Track B: Biomedical Imaging & Signal Processing						



	DE	Advanced Medical Imaging Techniques	4	0	0	4
	DE	Machine Learning for Medical Data Analysis	4	0	0	4
Track C: Biomechanics & Rehabilitation						
	DE	Advanced Biomechanics and Modeling	4	0	0	4
	DE	Sports Biomechanics and Injury Prevention	4	0	0	4